



Thomas J Vogl

Kontakt

Thomas J Vogl

Publikationen (67)

Arendt C, Vogl T, Wildermuth S, Gohmann R, Ehl N, Jörg L, Messerli M, Wichmann J, Tischendorf P, Bauer R. Using coronary CT angiography for guiding invasive coronary angiography: potential role to reduce intraprocedural radiation exposure. *Eur Radiol* 2018; 28:2756–2762.

Messerli M, Dewes P, Scholtz J, Arendt C, Wildermuth S, Vogl T, Bauer R. Evaluation of an adaptive detector collimation for prospectively ECG-triggered coronary CT angiography with third-generation dual-source CT. *Eur Radiol* 2017; 28:2143–2150.

Kaltenbach B, Roman A, Polkowski C, Gruber-Rouh T, Bauer R, Hammerstingl R, Vogl T, Zangos S. Free-breathing dynamic liver examination using a radial 3D T1-weighted gradient echo sequence with moderate undersampling for patients with limited breath-holding capacity. *Eur J Radiol* 2016; 86:26–32.

Martin S, Vogl T, Metzger S, Bauer R, Bodelle B, Booz C, Scholtz J, Hüsters K, Wichmann J, Albrecht M, Lehnert T. Value of a noise-optimized virtual monoenergetic reconstruction technique in dual-energy CT for planning of transcatheter aortic valve replacement. *Eur Radiol* 2016; 27:705–714.

Dewes P, Frellesen C, Scholtz J, Fischer S, Vogl T, Bauer R, Schulz B. Low-dose abdominal computed tomography for detection of urinary stone disease – Impact of additional spectral shaping of the X-ray beam on image quality and dose parameters. *Eur J Radiol* 2016; 85:1058–62.

Kaup M, Vogl T, Boettcher M, Lehnert T, Albrecht M, Kromen W, Beeres M, Scholtz J, Wichmann J, Bauer R. Dual-Energy CT-based Display of Bone Marrow Edema in Osteoporotic Vertebral Compression Fractures: Impact on Diagnostic Accuracy of Radiologists with Varying Levels of Experience in Correlation to MR Imaging. *Radiology* 2016; 280:510–9.

Bucher A, Kerl M, Albrecht M, Beeres M, Ackermann H, Wichmann J, Vogl T, Bauer R, Lehnert T. Systematic Comparison of Reduced Tube Current Protocols for High-pitch and Standard-pitch Pulmonary CT Angiography in a Large Single-center Population. *Acad Radiol* 2016; 23:619–27.

Kaup M, Vogl T, Lehnert T, Beeres M, Kerl J, Bauer R, Albrecht M, Engler A, Scholtz J, Wichmann J. Dual-Energy Computed Tomography Virtual Monoenergetic Imaging of Lung Cancer: Assessment of Optimal Energy Levels. *J Comput Assist Tomogr* 2016; 40:80–5.

Metzger S, Vogl T, Hammerstingl R, Albrecht M, Kerl J, Beeres M, Scholtz J, Buettner S, Wichmann J, Koehm M, Bauer R. Dual-Energy CT in Patients with Suspected Gouty Arthritis: Effects on Treatment Regimen and Clinical Outcome. *Acad Radiol* 2015; 23:267–72.

Frellesen C, Vogl T, Lehnert T, Kerl J, Bauer R, Metzger S, Albrecht M, Scholtz J, Hüsters K, Wichmann J, Kaup M, Bodelle B. Noise-optimized advanced image-based virtual monoenergetic imaging for improved visualization of lung cancer: Comparison with traditional virtual monoenergetic imaging. *Eur J Radiol* 2015; 85:665–72.

Scholtz J, Wichmann J, Hüsters K, Albrecht M, Beeres M, Bauer R, Vogl T, Bodelle B. Third-generation dual-source CT of the neck using automated tube voltage adaptation in combination with advanced modeled iterative reconstruction: evaluation of image quality and radiation dose. *Eur Radiol* 2015; 26:2623–31.

Albrecht M, Vogl T, Lehnert T, Bauer R, Bodelle B, Fischer S, Martin S, Kaup M, Bucher A, Beeres M, Hüsters K, Scholtz J, Wichmann J. Advanced image-based virtual monoenergetic dual-energy CT angiography of the abdomen: optimization of kiloelectron volt settings to improve image contrast. *Eur Radiol* 2015; 26:1863–70.

Frellesen C, Vogl T, Hammerstingl R, Schulz B, Kerl J, Schoepf U, De Cecco C, Wichmann J, Hardie A, Fessler F, Bauer R. Dual-energy CT of the pancreas: improved carcinoma-to-pancreas contrast with a noise-optimized monoenergetic reconstruction algorithm. <i>Eur J Radiol</i> 2015; 84:2052-8.
Beeres M, Kerl J, Vogl T, Nour-Eldin N, Frellesen C, Wichmann J, Lee C, Gruber-Rouh T, Kaup M, Scholtz J, Bauer R, Williams K, Bodelle B. First Clinical Evaluation of High-Pitch Dual-Source Computed Tomographic Angiography Comparing Automated Tube Potential Selection With Automated Tube Current Modulation. <i>J Comput Assist Tomogr</i> 2015; 39:624-8.
Hu X, Frellesen C, Kerl J, Bauer R, Beeres M, Bodelle B, Lehnert T, Vogl T, Wichmann J. Association of aortic root calcification severity with the extent of coronary artery calcification assessed by calcium-scoring dual-source computed tomography. <i>Eur J Radiol</i> 2015; 84:1910-4.
Wichmann J, Bauer R, Vogl T, Luboldt W, Frellesen C, Beeres M, Kerl J, Engler A, Hu X, Lehnert T. Dose levels and image quality of second-generation 128-slice dual-source coronary CT angiography in clinical routine. <i>Radiol Med</i> 2015; 120:1112-21.
Scholtz J, Vogl T, Lehnert T, Bauer R, Kerl J, Wagenblast J, Burck I, Schulz B, Scheerer F, Nöske E, Kraft J, Kaup M, Wichmann J. Objective and subjective image quality of primary and recurrent squamous cell carcinoma on head and neck low-tube-voltage 80-kVp computed tomography. <i>Neuroradiology</i> 2015; 57:645-51.
Vogl T, Lehnert T, Hammerstingl R, Hellwig T, Marzi I, Zacharowski K, Kerl M, Bauer R, Frellesen C, Eichler K. Multidisciplinary sliding-gantry CT: from concept to reality. <i>J Comput Assist Tomogr</i> 2015; 39:290-4.
Albrecht M, Vogl T, Kerl J, Lehnert T, Wagenblast J, Burck I, Bucher A, Dewes P, Kaup M, Bauer R, Kraft J, Scholtz J, Wichmann J. Assessment of an Advanced Monoenergetic Reconstruction Technique in Dual-Energy Computed Tomography of Head and Neck Cancer. <i>Eur Radiol</i> 2015; 25:2493-501.
Hu X, Frellesen C, Bauer R, Kerl J, Beeres M, Bodelle B, Lehnert T, Vogl T, Wichmann J. Computed tomography of dynamic changes of the aortic root during systole and diastole in patients with coronary artery calcification. <i>Radiol Med</i> 2015; 120:595-602.
Beeres M, Bauer R, Kerl J, Vogl T, Lee C. Energy Limits in Second Generation High-pitch Dual Source CT - Comparison in an Upper Abdominal Phantom. <i>J Clin Imaging Sci</i> 2015; 5:2.
Wichmann J, Vogl T, Lehnert T, Scholtz J, Kaup M, Bodelle B, Frellesen C, Schulz B, Kerl J, Hu X, Bauer R. 70 kVp computed tomography pulmonary angiography: potential for reduction of iodine load and radiation dose. <i>J Thorac Imaging</i> 2015; 30:69-76.
Scholtz J, Wichmann J, Kaup M, Fischer S, Kerl J, Lehnert T, Vogl T, Bauer R. First performance evaluation of software for automatic segmentation, labeling and reformation of anatomical aligned axial images of the thoracolumbar spine at CT. <i>Eur J Radiol</i> 2014; 84:437-42.
Wichmann J, Khan M, Vogl T, Lehnert T, Fischer S, Kerl J, Bauer R, Wesarg S, Booz C, Kafchitsas K. Quantitative dual-energy CT for phantomless evaluation of cancellous bone mineral density of the vertebral pedicle: correlation with pedicle screw pull-out strength. <i>Eur Radiol</i> 2014; 25:1714-20.
Frellesen C, Vogl T, Ackermann H, Wutzler S, Geiger E, Nau C, Lehnert T, Kerl J, Drieske M, Wichmann J, Boettcher M, Bauer R. Evaluation of a dual-room sliding gantry CT concept for workflow optimisation in polytrauma and regular in- and outpatient management. <i>Eur J Radiol</i> 2014; 84:117-22.

Wichmann J, Vogl T, Lehnert T, Bodelle B, Bauer R, Kerl J, Frellesen C, Eckardt A, Wagenblast J, Burck I, Kraft J, Nöske E, Schulz B. Virtual monoenergetic dual-energy computed tomography: optimization of kiloelectron volt settings in head and neck cancer. *Invest Radiol* 2014; 49:735–41.

Beeres M, Vogl T, Schulz B, Wichmann J, Kerl J, Mbalisike E, Gruber-Rouh T, Lee C, Bodelle B, Römer M, Bauer R. Chest-abdomen-pelvis CT for staging in cancer patients: dose effectiveness and image quality using automated attenuation-based tube potential selection. *Cancer Imaging* 2014; 14:28.

Wichmann J, Vogl T, Hammerstingl R, Gruber-Rouh T, Kerl J, Bauer R, Wesarg S, Schulz B, Kromen W, Beeres M, Majenka P, Lehnert T. Single-portal-phase low-tube-voltage dual-energy CT for short-term follow-up of acute pancreatitis: evaluation of CT severity index, interobserver agreement and radiation dose. *Eur Radiol* 2014; 24:2927–35.

Frellesen C, Vogl T, Ackermann H, Bodelle B, Schulz B, Beeres M, Wutzler S, Geiger E, Nau C, Wichmann J, Lehnert T, Kerl J, Stock W, Bauer R. Topogram-based automated selection of the tube potential and current in thoraco-abdominal trauma CT – a comparison to fixed kV with mAs modulation alone. *Eur Radiol* 2014; 24:1725–34.

Wichmann J, Hu X, Kerl J, Schulz B, Bodelle B, Frellesen C, Lehnert T, Vogl T, Bauer R. Non-linear blending of dual-energy CT data improves depiction of late iodine enhancement in chronic myocardial infarction. *Int J Cardiovasc Imaging* 2014; 30:1145–50.

Wichmann J, Arbaciauskaite R, Kerl J, Frellesen C, Bodelle B, Lehnert T, Monsefi N, Vogl T, Bauer R. Evaluation of monoenergetic late iodine enhancement dual-energy computed tomography for imaging of chronic myocardial infarction. *Eur Radiol* 2014; 24:1211–8.

Wichmann J, Booz C, Wesarg S, Kafchitsas K, Bauer R, Kerl J, Lehnert T, Vogl T, Khan M. Dual-energy CT-based phantomless in vivo three-dimensional bone mineral density assessment of the lumbar spine. *Radiology* 2014; 271:778–84.

Lehnert T, Vogl T, Ackermann H, Larson M, Schulz B, Burkhard T, Kerl J, Bauer R, Wutzler S, Naguib N, Balzer J. Comparative study between mobile computed radiography and mobile flat-panel radiography for bedside chest radiography: impact of an antiscatter grid on the visibility of selected diagnostically relevant structures. *Invest Radiol* 2014; 49:1–6.

Wichmann J, Bauer R, Doss M, Stock W, Lehnert T, Bodelle B, Frellesen C, Vogl T, Kerl J. Diagnostic accuracy of late iodine-enhancement dual-energy computed tomography for the detection of chronic myocardial infarction compared with late gadolinium-enhancement 3-T magnetic resonance imaging. *Invest Radiol* 2013; 48:851–6.

Herzog C, Vogl T, Ackermann H, Zwerner P, Silverman J, Bauer R, Kim H, Scheuchenzuber M, Liem S, Boehme E, Tekin T, De Rosa S, Kerl J, Schoepf U. Influence of observer experience and training on proficiency in coronary CT angiography interpretation. *Eur J Radiol* 2013; 82:1240–7.

Bodelle B, Bauer R, Holthaus L, Schulz B, Al-Butmeh F, Wichmann J, Beeres M, Vogl T, Kerl J. Dose and image quality of high-pitch dual source computed tomography for the evaluation of cervical lymph node status – comparison to regular 128-slice single source computed tomography. *Eur J Radiol* 2013; 82:e281–5.

Beeres M, Vogl T, Jacobi V, Lee C, Gruber-Rouh T, Herrmann E, Bodelle B, Al-Butmeh F, Kerl M, Schulz B, Loch M, Bauer R. Bolus timing in high-pitch CT angiography of the aorta. *Eur J Radiol* 2013; 82:1028–33.

Bauer R, Radtke I, Block K, Larson M, Kerl J, Hammerstingl R, Graf T, Vogl T, Zhang S. True real-time cardiac MRI in free breathing without ECG synchronization using a novel sequence with radial k-space sampling and balanced SSFP contrast mode. *Int J Cardiovasc Imaging* 2013; 29:1059–67.

Vogl T, Schulz B, Bauer R, Stöver T, Sader R, Tawfik A. Dual-energy CT applications in head and neck imaging. *AJR Am J Roentgenol* 2012; 199:S34–9.

Bauer R, Schell B, Beeres M, Wichmann J, Bodelle B, Vogl T, Kerl J. High-pitch dual-source computed tomography pulmonary angiography in freely breathing patients. *J Thorac Imaging* 2012; 27:376–81.

Lehnert T, Naguib N, Wutzler S, Nour-Eldin N, Bauer R, Kerl J, Vogl T, Balzer J. Analysis of disk volume before and after CT-guided intradiscal and periganglionic ozone-oxygen injection for the treatment of lumbar disk herniation. *J Vasc Interv Radiol* 2012; 23:1430–6.

Lehnert T, Wrzesniak A, Bernhardt D, Ackermann H, Kerl J, Vega-Higuera F, Vogl T, Bauer R. Fully automated right ventricular volumetry from ECG-gated coronary CT angiography data: evaluation of prototype software. *Int J Cardiovasc Imaging* 2012; 29:489–96.

Tawfik A, Kerl J, Bauer R, Nour-Eldin N, Naguib N, Vogl T, Mack M. Dual-energy CT of head and neck cancer: average weighting of low- and high-voltage acquisitions to improve lesion delineation and image quality-initial clinical experience. *Invest Radiol* 2012; 47:306–11.

Schulz B, Potente S, Zangos S, Friedrichs I, Bauer R, Kerl M, Vogl T, Mack M. Ultra-low dose dual-source high-pitch computed tomography of the paranasal sinus: diagnostic sensitivity and radiation dose. *Acta Radiol* 2012; 53:435–40.

Vogl T, Huebner F, Naguib N, Bauer R, Mack M, Nour-Eldin N, Meister D. MR-based thermometry of laser induced thermotherapy: temperature accuracy and temporal resolution in vitro at 0.2 and 1.5 T magnetic field strengths. *Lasers Surg Med* 2012; 44:257–65.

Kromen W, Korkusuz H, Korkusuz Y, Esters P, Bauer R, Huebner F, Lindemayr S, Vogl T. Correlation of left ventricular wall thickness, heart mass, serological parameters and late gadolinium enhancement in cardiovascular magnetic resonance imaging of myocardial inflammation in an experimental animal model of autoimmune myocarditis. *Int J Cardiovasc Imaging* 2012; 28:1983–97.

Kerl J, Schoepf U, Bauer R, Tekin T, Costello P, Vogl T, Herzog C. 64-slice multidetector-row computed tomography in the diagnosis of coronary artery disease: interobserver agreement among radiologists with varied levels of experience on a per-patient and per-segment basis. *J Thorac Imaging* 2012; 27:29–35.

Lehnert T, Naguib N, Korkusuz H, Bauer R, Kerl J, Mack M, Vogl T. Image-quality perception as a function of dose in digital radiography. *AJR Am J Roentgenol* 2011; 197:1399–403.

Kerl J, Lehnert T, Schell B, Bodelle B, Beeres M, Jacobi V, Vogl T, Bauer R. Intravenous contrast material administration at high-pitch dual-source CT pulmonary angiography: test bolus versus bolus-tracking technique. *Eur J Radiol* 2011; 81:2887–91.

Beeres M, Jacobi V, Vogl T, Zangos S, Bodelle B, Siebenhandl P, Lee C, Gruber-Rouh T, Kerl J, Herrmann E, Mastragelopoulos A, Schell B, Bauer R. High-pitch dual-source CT angiography of the whole aorta without ECG synchronisation: initial experience. *Eur Radiol* 2011; 22:129–37.

Kerl J, Vogl T, Schoepf U, Herzog C, Lehmann R, Korkusuz H, Kettner M, Kaiser C, Tandi C, Deseive S, Bauer R. Dual energy CT for the assessment of reperfused chronic infarction – a feasibility study in a porcine model. *Acta Radiol* 2011; 52:834–9.

Deseive S, Vogl T, Schoepf U, Schächinger V, Theisen A, Tandi C, Korkusuz H, Kaiser C, Kettner M, Lehmann R, Bauer R, Kerl J. Dual-energy computed tomography for the detection of late enhancement in reperfused chronic infarction: a comparison to magnetic resonance imaging and histopathology in a porcine model. *Invest Radiol* 2011; 46:450–6.

Paul J, Banckwitz R, Krauss B, Vogl T, Maentele W, Bauer R. Estimation and comparison of effective dose (E) in standard chest CT by organ dose measurements and dose-length-product methods and assessment of the influence of CT tube potential (energy dependency) on effective dose in a dual-source CT. *Eur J Radiol* 2011; 81:e507–12.

Renker M, Vogl T, Fink C, Bauer R, Kerl J, Meyer M, Zwerner P, O'Brien T, Schoepf U, Nance J, Henzler T. Evaluation of heavily calcified vessels with coronary CT angiography: comparison of iterative and filtered back projection image reconstruction. *Radiology* 2011; 260:390–9.

Paul J, Schell B, Kerl J, Maentele W, Vogl T, Bauer R. Effect of contrast material on image noise and radiation dose in adult chest computed tomography using automatic exposure control: a comparative study between 16-, 64- and 128-slice CT. *Eur J Radiol* 2011; 79:e128–32.

Bauer R, Vogl T, Jacobi V, Lehnert T, Beeres M, Larson M, Schell B, Renker M, Kramer S, Kerl J. Dose and image quality at CT pulmonary angiography-comparison of first and second generation dual-energy CT and 64-slice CT. *Eur Radiol* 2011; 21:2139–47.

Kerl J, Schoepf U, Zwerner P, Bauer R, Abro J, Thilo C, Vogl T, Herzog C. Accuracy of coronary artery stenosis detection with CT versus conventional coronary angiography compared with composite findings from both tests as an enhanced reference standard. *Eur Radiol* 2011; 21:1895–903.

Bauer R, Vogl T, Jacobi V, Schoepf U, Ackermann H, Lehnert T, Schell B, Renker M, Frellesen C, Kerl J. Dual energy CT pulmonary blood volume assessment in acute pulmonary embolism – correlation with D-dimer level, right heart strain and clinical outcome. *Eur Radiol* 2011; 21:1914–21.

Paul J, Bauer R, Maentele W, Vogl T. Image fusion in dual energy computed tomography for detection of various anatomic structures--effect on contrast enhancement, contrast-to-noise ratio, signal-to-noise ratio and image quality. *Eur J Radiol* 2011; 80:612–9.

Kerl J, Jacobi V, Kromen W, Larson M, Schell B, Korkusuz H, Weisser P, Weber E, Renker M, Bauer R, Vogl T. Triphasic contrast injection improves evaluation of dual energy lung perfusion in pulmonary CT angiography. *Eur J Radiol* 2010; 80:e483–7.

Bauer R, Kerl J, Weber E, Weisser P, Korkusuz H, Lehnert T, Jacobi V, Vogl T. Lung perfusion analysis with dual energy CT in patients with suspected pulmonary embolism--influence of window settings on the diagnosis of underlying pathologies of perfusion defects. *Eur J Radiol* 2010; 80:e476–82.

Kerl J, Bauer R, Maurer T, Aschenbach R, Korkusuz H, Lehnert T, Deseive S, Ackermann H, Vogl T. Dose levels at coronary CT angiography--a comparison of Dual Energy-, Dual Source- and 16-slice CT. *Eur Radiol* 2010; 21:530–7.

Bauer R, Kerl J, Fischer N, Burkhard T, Larson M, Ackermann H, Vogl T. Dual-energy CT for the assessment of chronic myocardial infarction in patients with chronic coronary artery disease: comparison with 3-T MRI. *AJR Am J Roentgenol* 2010; 195:639-46.

Schell B, Bauer R, Lehnert T, Kerl J, Hambek M, May A, Vogl T, Mack M. Low-dose computed tomography of the paranasal sinus and facial skull using a high-pitch dual-source system--first clinical results. *Eur Radiol* 2010; 21:107-12.

Bauer R, Schulz J, Zedler B, Graf T, Vogl T. Compound analysis of gallstones using dual energy computed tomography--results in a phantom model. *Eur J Radiol* 2009; 75:e74-80.

Bauer R, Thilo C, Chiaramida S, Vogl T, Costello P, Schoepf U. Noncalcified atherosclerotic plaque burden at coronary CT angiography: a better predictor of ischemia at stress myocardial perfusion imaging than calcium score and stenosis severity. *AJR Am J Roentgenol* 2009; 193:410-8.

Vogl T, Zangos S, Eichler K, Selby J, Bauer R. Palliative hepatic intraarterial chemotherapy (HIC) using a novel combination of gemcitabine and mitomycin C: results in hepatic metastases. *Eur Radiol* 2007; 18:468-76.

Projekte (0)

Keine Resultate gefunden.

Kantonsspital St.Gallen

Rorschacher Strasse 95

CH-9007 St.Gallen

T: +41 71 494 11 11

support.forschung@kssg.ch